IPS Controller Assembly

HCW930 IPS Controller

SECURITY

- Lockable powder coated steel cabinet
- Control Module and Wiegand Module
- Integrated power supply
- Expandable up to eight doors or a combination of I/O and doors

The OMNIA Controller Assembly includes a Control Module and one Wiegand Module, with an isolated DC power supply pre-installed in a steel housing.

The power and communications wiring between the Control Module and expansion modules within the cabinet are pre-configured, making installation and commissioning a quick and efficient exercise. Additional modules can be added by simply clipping them into pre-installed brackets.

The Controller Assembly may be used as an autonomous OMNIA Lite installation – or it may be a component in a much larger OMNIA Basic/ Pro/Enterprise installation, either as a system controller or as a door controller (DIP switch selectable).

Features

- Scaling to the size requirement of the application.
- Expansion - Quick and convenient (plug-in).
- Zero System Downtime - (When plugged into the Control Module) - Replacing a WM only requires downtime on the doors associated with the Expansion Modules that are disconnected (the Tag memory and Transaction Buffer reside in the Control Module).
- Hot Swappable - No need to power down when plugging, unplugging and wiring of modules.
- Offers full Wiegand and OSDP support.
- Connects to two readers or third-party supported devices per Wiegand module.
- Allows Relaxed or Full Anti-passback (APB) access on a single Door or single entry on two Doors per Wiegand Module.
- Has end-of-line (EOL) Sensing on Door Open Sensor (DOS) Inputs.
- Expansion capability up to eight doors.

Key Features: Control Module (CM)

General Features

- Up to 4 Expansion Modules may be accommodated with the CM, a further 8 Expansion Modules may be connected via S-Bus and mounted up to 150 m away from the Assembly (offline functionality is not supported when using the S-Bus protocol.
- S-Bus uses AES 128-bit Encryption through a Diffie Hellman key exchange to ensure secure communications
- A TCP/IP Bus which links the Controller Assembly to the Host PC with a standard Ethernet Cable.
- A Software utility to upgrade Firmware while installed on-site, without removal of the CM.

CM configured as an NEXUS220 Controller

- 64 Reader Fixed Addresses (in total) via RS485 or IP, S-Bus to other CM's, or to legacy (iTRT) Intelligent Twin Reader Terminals.
- Up to 10 000 Tags and up to 100 000 buffered Transactions.
- Communication options with host include Ethernet and RS485

CM configured as an OMNIA Lite Controller

- 16 Reader Fixed Addresses (Some of these may be via Expansion Modules mounted outside of the IPS Housing, connected via S-Bus).
- The built-in OMNIA Lite Web UI runs on any HTML 5 compliant web browser.
- The OMNIA Lite Web UI allows export of CSV data from the Web browser.
- Up to 1 000 tag holders (up to 3 tags each) and up to 100 000 buffered Transactions

CM configured as an OMNIA Base Controller

- 64 Reader Fixed Addresses, offering connection via RS485 to other CM's, or to the legacy (iTRT) Intelligent Twin Reader Terminal.
- Up to 10 000 Tags and up to 100 000 buffered Transactions.
- Stores all information locally on the CM

CM configured as an OMNIA Pro Controller

- 64 Reader Fixed Addresses, offering connection via RS485 to other CM's, or to the legacy (iTRT) Intelligent Twin Reader Terminal.
- Up to 10 000 Tags and up to 100 000 buffered Transactions.
- Stores all information locally on the CM

CM is configured as a Door Controller

Support for the following Terminal Communication options:

- Ethernet—Connect to your chosen System Controller using the existing IP infrastructure.
- RS485—an ultra-reliable method of connecting to your chosen System Controller.

Key Features: Control Module (WM)

- Zero Downtime – Replacing a WM only requires downtime on the doors associated with the Expansion Modules being replaced (the Tag memory and Transaction Buffer reside in the CM).
- 3-Year Warranty on Hardware.
- A Software utility to upgrade Firmware while installed on-site, without removal of the WM.
- Flexibility in installation – The WM may be:
  - Plugged (together with other Expansion Modules) into the CM, forming part of an assembly
  - Installed up to 450 feet away from its CM (connected via S-Bus)
- The WM Interfaces to the following Readers:
  - Multi-discipline Readers
  - Wiegand Reader
  - OSDP Readers
- The WM:
  - Offers full Wiegand and OSDP Support.
  - Interfaces to the Quad Receiver and third-party Wiegand readers.
  - Connects up to two readers or third-party devices.
  - Allows Relaxed or Full Anti-passback (APB) access on a single door or single entry on two doors.
  - Has End-Of-Line (EOL) sensing on Door Open Sensor (DOS) Inputs.
  - Has eight status LEDs, (two visible with the housing closed) providing concise diagnostic indication
- Two 10A independent single-pole, double-throw (SPDT) Relay Outputs that allow you to interface to door strikes, magnetic locks and other third party devices (for example alarm panels or lighting).
- Four Digital Inputs including two Door Open Sensor (DOS) and two Request to Exit (RTE) Inputs.

SPECIFICATIONS

PHYSICAL SPECIFICATIONS	
Depth:	311 mm (12.25 in)
Width	374 mm (14.75 in)
Height:	76 mm (3 in)
Approx. Weight:	5.45 kg (7lb)
Housing Material:	Steel
Color:	Black
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature:	-25°C to +60°C (-13°F to +140°F)
H.264 Compression Standard	Baseline Profile/Main Profile/High Profile
Storage Temperature:	-40°C to +80°C (-40°F to +176°F)
Humidity Range:	0 to 95% relative humidity at +40°C (+104°F) non-condensing
APROVALS	
HCW930-1-0-UL	UL294
HCW930-1-0-CB	CB Scheme- Scheme of the IECEE for Mutual Recognition of Test Certificates for Electrical Equipment

ELECTRICAL SPECIFICATIONS	
Input Voltage	100-240VAC
DC Output Voltage	12V
Current (Max.) HCW930-1-0-UL	10A
Current (Max.) HCW930-1-0-CB	5A
Available current for peripheral: HCW930-1-0-UL	6A Total for door hardware
Available current for peripheral: HCW930-1-0-CB	1A Total for door hardware
ORDERING INFORMATION	
HCW930-1-0-UL	IPS Controller Assembly
HCW930-1-0-CB	IPS Controller Assembly

Make the Intelligent Choice

For more information about PMTSecurity products, to see demonstrations, or to discuss your company's needs contact the PMT Security team at 727-786-1900.